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ANSWER 1 OF 1 CA COPYRIGHT 2009 ACS on STN
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ED Entered STN: 19 Aug 1988
TΙ
    Method and apparatus for manufacturing building panels from calcium
    silicate
IN
    Stellmach, Winfried
PA
    CSP-Chemie Entwicklungsgesellschaft m.b.H., Fed. Rep. Ger.
    Ger. Offen., 5 pp.
SO
    CODEN: GWXXBX
DT
    Patent
LA
    German
IC
    ICM C04B028-20
    ICS B28B005-02; B28B003-00
CC
    58-4 (Cement, Concrete, and Related Building Materials)
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                                         APPLICATION NO.
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    DE 3641823
                       A1
                              19880616
                                        DE 1986-3641823
                                                               19861206
РΤ
    EP 270797
                                        EP 1987-115641
                        Α1
                              19880615
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    EP 270797
                        В1
                             19930107
        R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
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T3
    AT 84293
                            19930115 AT 1987-115641
                                                                19871024
                                       ES 1987-115641
    ES 2036557
                              19930601
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                       A 19880607
    DK 8706389
                                        DK 1987-6389
PRAI DE 1986-3641823
                           19861206
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    EP 1987-115641
                       Α
                              19871024
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
 DE 3641823
               ICM
                      C04B028-20
                ICS
                      B28B005-02; B28B003-00
                IPCI
                      C04B0028-20 [ICM, 4]; C04B0028-00 [ICM, 4, C*];
                      B28B0005-02 [ICS, 4]; B28B0005-00 [ICS, 4, C*];
                      B28B0003-00 [ICS, 4]
                IPCR
                     C04B0040-02 [I,C*]; C04B0040-02 [I,A]
                ECLA C04B040/02
 EP 270797
               IPCI C04B0040-02 [ICM, 4]
               IPCR C04B0040-02 [I,C*]; C04B0040-02 [I,A]
               ECLA C04B040/02
AT 84293
               IPCI C04B0040-02 [ICM, 5]
               IPCR C04B0040-02 [I,C*]; C04B0040-02 [I,A]
 ES 2036557
              IPCI C04B0040-02 [ICM, 4]
               IPCR C04B0040-02 [I,C*]; C04B0040-02 [I,A]
               ECLA C04B040/02
               IPCI C04B0028-18 [ICM, 4]; C04B0028-00 [ICM, 4, C*]
 DK 8706389
               IPCR C04B0040-02 [I,C*]; C04B0040-02 [I,A]
                ECLA C04B040/02
    Ca silicate building panels are manufactured by conversion of SiO2 or a
AΒ
    substance containing SiO2 with CaO or a substance containing CaO in the
presence
    of water, dewatering the Ca silicate slurry,
    autoclave-hardening, and drying. An aqueous solution of the reactants for Ca
    silicate hydrate formation and gelling is used, and allowed to stand
    undisturbed until the end of gel formation, i.e., stabilization,
    then pressed to the desired thickness, rolled, dewatered, steam-hardened,
    and dried. In the corresponding apparatus, the components are mixed on a
    water-permeable conveyor belt with a length before the subsequent filter
    press designed to provide the necessary dwell time for gel formation at a
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given feed rate. A typical starting mixture of finely ground quartz

meal 30, amorphous silicic acid 12 (as SiO2), white lime 38, finely ground Ca silicate 13, cellulose fibers 4, and alkali-resistant glass fibers 3 weight% gave plates with compressive strength 3.9 and bending strength 1.3 N/mm2, shrinkage at 750° 1.0 and at 1000° 1.2%, and heat conductivity 0.102 W/m-K.

- ST calcium silicate plate manuf; gelling calcium silicate hydrate
- IT Building materials

(panels, calcium silicate, manufacture of, calcium silicate hydrate formation and gelling for)

- IT 1344-96-3P, Calcium silicate hydrate
 - RL: PREP (Preparation)

(formation and gelling of, in calcium silicate panel manufacture)

IT 1344-95-2P, Calcium silicate